## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SG03/00223

<b>A.</b> .	CLASSIFICATION OF SUBJECT MATTER							
Int. Cl. 7:	H01L 21/4763, 21/285, 23/36, 23/367, 23/373, 31/024, 31/052, 31/18, H01S 5/024							
According to International Patent Classification (IPC) or to both national classification and IPC								
В.	FIELDS SEARCHED .							
Minimum documentation searched (classification system followed by classification symbols)								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) file dwpi: limit /ic h011-021 or h011-023 or h011-031 or h011-033 or h0 1s-005, gan or (gallium (w) nitride), sapphire or gaas or inp or si, epitax+ or epilayer?, copper or cu, adhesion (w) layer, seed (w) layer, (heat or thermal+) (s) (sink+ or spread+ or conduct+ or dissipat+ or remov+), laser or led? or (light (w) emitting), ohmic (w) contact, active (w) region, thick, electroplat+ or electrodeposit+, lift (w) off, (host or temporary or remov+) (2d) substrate								
C.	DOCUMENTS CONSIDERED TO BE RELEVANT							
Category*	Citation of document, with indication, where appropriate appropria	opriate, of the relevant passages	Relevant to claim No.					
A	US 6562648 B1 (WONG et al.) 13 May 2003 Column 4, lines 3–17; figures 1a–1g							
A	US 2003/0064535 A1 (KUB et al.) 3 April 2003 Page 2, paragraphs [0032]–[0035]; figures 1(a)–1(d)							
Α	US 6448102 B1 (KNEISSL et al.) 10 September 2002 Column 2, lines 5–38; figures 11a–11f							
X F	urther documents are listed in the continuation	of Box C X See patent family anne	ex					
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent but published on or after the international filing date  "X" later document published after the international filing date or priority of and not in conflict with the application but cited to understand the print or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step								
when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious a person skilled in the art								
"O" document referring to an oral disclosure, use, "&" document member of the same patent family exhibition or other means  "P" document published prior to the international filing								
Date of the actual completion of the international search  2 December 2003  Date of mailing of the international search report								
	ing address of the ISA/AU	Authorized officer						
AUSTRALIAN PO BOX 200, V E-mail address:	I PATENT OFFICE  WODEN ACT 2606, AUSTRALIA  : pct@ipaustralia.gov.au  (02) 6285 3929	RAJEEV DESHMUKH Telephone No: (02) 6283 2145						

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SG03/00223

C (Continua	ion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6210479 B1 (BOJARCZUK et al.) 3 April 2001 Column 3, line 18-column 4, line52; figures 1-6	
A	EP 1326290 A2 (XEROX CORPORATION) 9 July 2003 Abstract; figure 2	
E, A	US 6627921 B2 (WONG et al.) 30 September 2003 Column 4, lines 10–23; figures 1a–1g	
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## INTERNATIONAL SEARCH REPORT

International application No.

Information on patent family members

PCT/SG03/00223

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member						
US	6562648	лР	2002076523	US	2003122141			
US	2003064535							
US	6448102	JР	2000196197	US	6365429			
UŠ	6210479	JP	10270712	JР	2000252224	JР	2002198539	
		US	5946551	US	5981970	US	6344660	
		US	6344662					
EP	1326290	CA	2414325	JР	2003234542	US	6455340	
US	6627921	JР	2002076523	US	6562648	US	2003122141	
		•					END OF ANNEX	